## (19) World Intellectual Property Organization

International Bureau





(43) International Publication Date 12 February 2004 (12.02.2004)

**PCT** 

## (10) International Publication Number WO 2004/013297 A2

(51) International Patent Classification7:

**C12N** 

(21) International Application Number:

PCT/US2003/024238

(22) International Filing Date: 1 August 2003 (01.08.2003)

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data:

60/400,330

1 August 2002 (01.08.2002) US

- (71) Applicants (for all designated States except US): UNI-VERSITY OF MARYLAND BIOTECHNOLOGY [US/US]; Institute Off. of Research Admin./Tech.Dev., 701 E. Pratt Street, Suite 200, Baltimore, MD 21202 (US). UNIVERSITY OF MISSISSIPPI [US/US]; National Center for Natural Products Research, Thad Cochran, P.O. Box 1848, University, MS 38677 (US).
- (72) Inventors; and
- (75) Inventors/Applicants (for US only): HILL, Russell, T. [ZA/US]; 3019 Guilford Ave., Baltimore, MD 21218 (US). HAMANN, Mark, T. [US/US]; 213 Timber Lane, Oxford, MS 38677 (US). PERAUD, Olivier [FR/US]; 506 South

Washington St., Baltimore, MD 21231 (US). KASANAH, Noer [ID/US]; Coliseum Drive, Village Apartment, Building 112, #5, University, MS 38677 (US).

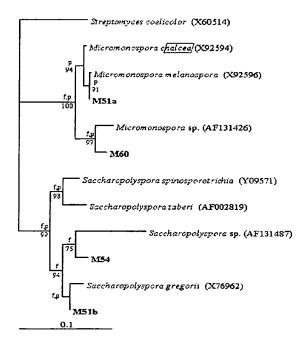
- (74) Agents: FUIERER, Marianne et al.; Intellectual Property/Technology Law, P.O. Box 14329, Research Triangle Park, NC 27709 (US).
- (81) Designated States (national): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.
- (84) Designated States (regional): ARIPO patent (GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

## Declaration under Rule 4.17:

of inventorship (Rule 4.17(iv)) for US only

[Continued on next page]

(54) Title: MANZAMINE-PRODUCING ACTINOMYCETES



(57) Abstract: Disclosed are strains of actinomycetes that produce manzamines or derivatives thereof, methods of isolating said strains, and a 16S rRNA useful in identifying manzamine-producing bacteria.

